

L Number	Hits	Search Text	DB	Time stamp
45	10	("4679909" "4804951" "4839634" "5103218" "5151688" "5194852" "5270711" "5313222" "5392058" "5440323").PN.	USPAT	2004/03/05 14:09
-	451	capacitor with simultaneous\$2 with (data or column)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/05 00:03
-	65	(capacitor with simultaneous\$2 with (data or column)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/20 13:01
-	6	(capacitor with simultaneous\$2 with (data or column) and (lcd or liquid adj crystal)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 22:23
-	19929	(lcd or liquid adj crystal) and 345/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/02/19 22:24
-	48	(capacitor with simultaneous\$2 with (data or column)) and ((lcd or liquid adj crystal) and 345/\$.ccls.)	USPAT; US-PGPUB	2004/02/19 22:24
-	3	("5654728" "5943030" "6249279").PN.	USPAT	2004/02/20 12:17
-	10	("4679909" "4804951" "4839634" "5103218" "5151688" "5194852" "5270711" "5313222" "5392058" "5440323").PN.	USPAT	2004/02/20 12:20
-	5	5206632.URPN.	USPAT	2004/02/20 12:26
-	4	("3824003" "4714921" "4750813" "4830467").PN.	USPAT	2004/02/20 12:29
-	360	345/99.ccls.	USPAT; US-PGPUB	2004/02/20 13:01
-	1317	345/98-100.ccls.	USPAT	2004/03/05 00:07
-	20695	(capacitor or storage) with (simultaneous\$2 or "at a time" or "same time") with (data or column or source or signal)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/05 00:05
-	2889	(capacitor or storage) with (simultaneous\$2 or "at a time" or "same time") with (data or column or source or signal) with (switch or switching or transmit or transmitting)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/05 00:06
-	87	345/98-100.ccls. and ((capacitor or storage) with (simultaneous\$2 or "at a time" or "same time") with (data or column or source or signal))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/05 00:07
-	21	345/98-100.ccls. and ((capacitor or storage) with (simultaneous\$2 or "at a time" or "same time") with (data or column or source or signal) with (switch or switching or transmit or transmitting))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/05 00:08
-	1550	345/98-100.ccls.	USPAT; US-PGPUB	2004/03/05 00:07
-	25	345/98-100.ccls. and ((capacitor or storage) with (simultaneous\$2 or "at a time" or "same time") with (data or column or source or signal) with (switch or switching or transmit or transmitting))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/05 00:08
-	6	("2998192" "4724433" "5173791" "5262720" "5289332" "5583533").PN.	USPAT	2004/03/05 00:39

US-PAT-NO: 5583535

DOCUMENT-IDENTIFIER: US 5583535 A

TITLE: Column electrode drive circuit of
liquid crystal display device capable of simultaneously
applying display voltages to column electrodes as
well as sequentially applying scanning voltages to
column electrodes

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US Patent No. - PN (1):
5583535

Detailed Description Text - DETX (65):

The column electrode drive circuit of a liquid crystal display device of the present invention has the sampling circuit and the hold circuit. The hold circuit is provided with the plural number of transfer gates which switch the pass condition of sampled voltages from the sampling circuit between the "simultaneous output" and the "sequential output" according to the selection of a transfer signal or a control signal, and a plural number of hold capacitors for holding electric charges corresponding to the sampled voltages which has passed through the transfer gates. A signal selector circuit selects the transfer signal or the control signal to output it to the transfer gates. With the above-mentioned arrangement, when the signal selector circuit selects the control signal to output it to the transfer gates, the voltages based on the sampled voltages which sequentially pass through the sampling gates can be

sequentially applied to the column electrodes.

Current US Original Classification - CCOR (1):
345/99